TEJ PLUS

SAATVIK

BIFACIAL-NTOPCon G12R

132 CELLS (DUAL GLASS)

600-640 Wp

SGE XXX-132 TGG (XXX:600-640 Wp)



KEY FEATURES

N-Type with Very Low LID
Resulting in higher power generation

Positive Tolerance
Power output is guaranteed with a positive tolerance

Excellent performance in low light
Superior output in low irradiance Increased power production even in low-light environments.

Better Temperature coefficient (-0.30%/°C)
Higher power generation under higher ambient temperature conditions

Higher Module Efficiency
Module Eff. Up-to 23.69%

10-30% more power generation
When compared with the P-type module

Advanced technology
MBB-Multi Bus-bar (16BB)
Half-cut N-TOPCon cell

Extended Wind and snow loads
Wind Load (2400 Pascal) and Snow Load (5400 Pascal)

Withstanding a harsh environment
Reliable quality leads to better sustainability, even in harsh environments such as deserts, Farms, coastal and the areas with ammonia exposure

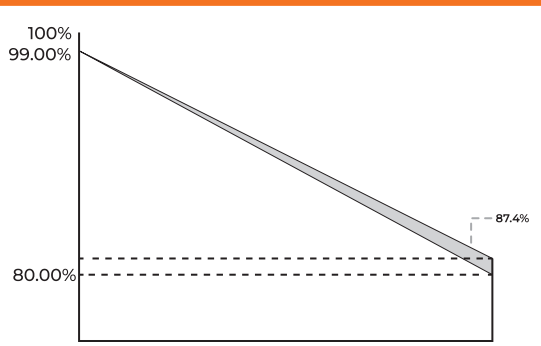
Rigorous testing criteria
100% EL inspection, ensures defect-free modules

Bifaciality factor 80±5%
The ratio of rear efficiency in relation to the front efficiency subjected to same irradiance.

12 YEARS
Product Warranty**
12 years of product warranty

30 YEARS
Performance Warranty
Power degradation <1.0% in first year and <0.40% / year in 2 to 30 years

** Please read Saatvik solar warranty documents thoroughly



Certifications & Standards

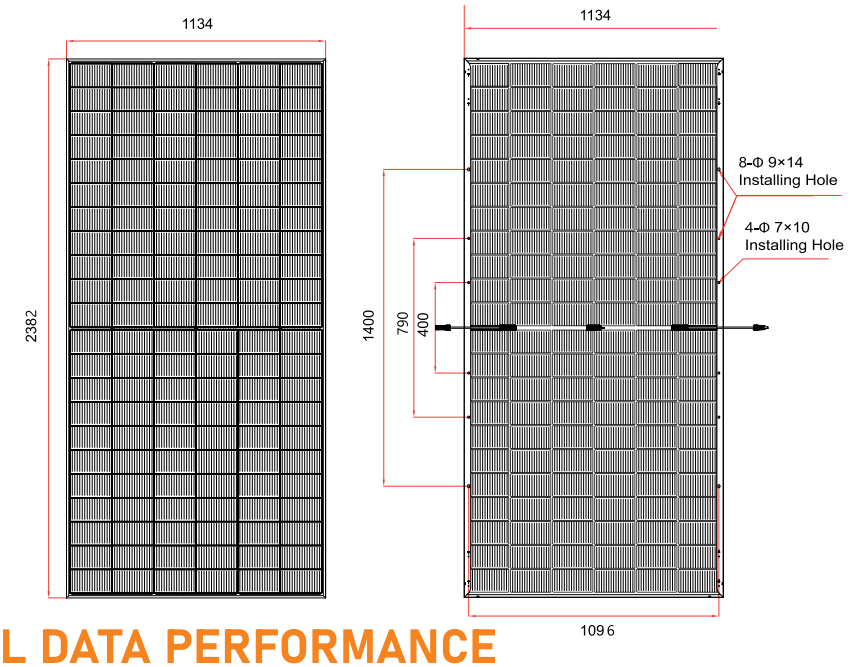
IEC 61215, IEC 61730, IEC 61701, UL 61215,
UL 61730, IS 14286, IEC 62716, IEC 62804
IEC 60068-2-68, IEC 61853-1&2 IS 61730-1
IEC 61730-1 IS 61730-2 IEC 61730-2

Certifications

Warranty partner Munich RE

Call Us: 1800-547-1151 | www.saatvikgroup.com | sales@saatvikgroup.com

Follow us at :



ELECTRICAL DATA PERFORMANCE

Module Type		600Wp		605Wp		610Wp		615Wp		620Wp		625Wp		630Wp		635Wp		640Wp	
Conditions	Unit	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power, Pmax (Wp)	W	600	451	605	455	610	458	615	462	620	466	625	470	630	474	635	477	640	481
Voltage at Maximum power, Vmp	V	40.11	38.02	40.31	38.21	40.51	38.40	40.71	38.59	40.91	38.78	41.11	38.97	41.31	39.13	41.51	39.35	41.71	39.54
Current at maximum power, Imp	A	14.96	11.87	15.01	11.91	15.06	11.94	15.11	11.98	15.16	12.02	15.21	12.06	15.26	12.1	15.31	12.13	15.36	12.17
Open circuit voltage, Voc	V	47.98	45.49	48.18	45.67	48.38	45.86	48.58	46.05	48.78	46.24	48.98	46.43	49.18	46.62	49.38	46.81	49.58	47
Short circuit current, Isc	A	15.85	12.80	15.90	12.84	15.95	12.88	16.00	12.92	16.05	12.96	16.10	13.00	16.15	13.04	16.2	13.08	16.25	13.12
Module Efficiency (%)		22.21%		22.39%		22.58%		22.77%		22.95%		23.14%		23.32		23.51		23.69	
Operating Temperature (°C)		-40°C~+85°C		Temperature coefficients of Isc (α)						+0.046%/°C									
Maximum system voltage		1500 VDC		Nominal operating cell temperature						45±2°C									
Maximum series fuse rating		35A		Fire Safety						Class-C									
Power tolerance (Wp)		0~+3%		Protection Class II						Class-A									
Temperature coefficient of Pmax (γ)		-0.30%/°C		Safety Class						Class-II									
Temperature coefficient of Voc (β)		-0.26%/°C																	

STC: Irradiance 1000W/m², module temperature 25°C, AM =1.5; NOCT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind Speed 1m/s. Average power reduction of 4.5% at 200W/m² as per IEC 60904- 1. Except Pmax, all other parameters have tolerance of +/-5%, measurement uncertainty +/-3%

BI-FACIAL OUTPUT - BACKSIDE POWER GAIN*

Bifacial Gain	Measurement	Unit	600Wp	605Wp	610Wp	615Wp	620Wp	625Wp	630Wp	635Wp	640Wp
5%	Peak Power (Pmax)	W	630	635	641	646	651	656	662	667	672
	Module Efficiency	%	23.32%	23.50%	23.73%	23.91%	24.10%	24.29%	24.51	24.69	24.88
10%	Peak Power (Pmax)	W	660	666	671	677	682	688	693	699	704
	Module Efficiency	%	24.43%	24.65%	24.84%	25.06%	25.24%	25.47%	25.66	25.88	26.06
15%	Peak Power (Pmax)	W	690	696	702	707	713	719	725	730	736
	Module Efficiency	%	25.54%	25.76%	25.98%	26.17%	26.39%	26.61%	26.84	27.03	27.25

*Power gain from the rear side depends on the ground reflectance (Albedo) & Bifaciality factor.

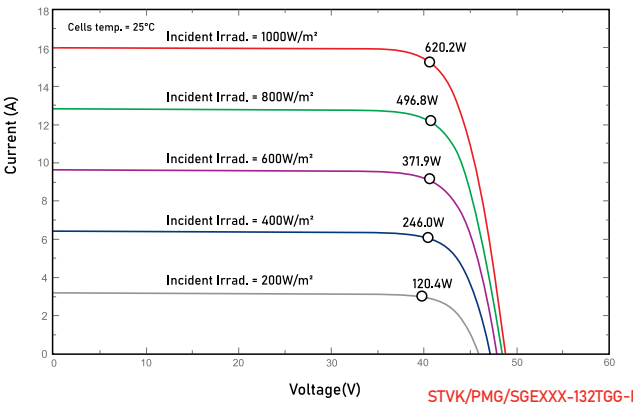
MODULE MECHANICAL DATA

SPECIFICATION DATA	
Cell Type	N-TOPCon, 132 Cells
Dimensions	2382x1134x30mm
Weight	33 Kgs
Front Cover	2.00 mm
Rear Cover	2.00 mm
Frame Material	Silver Anodized Aluminium Profile
J-Box	IP68, 3 diodes
Cable	350mm, 4mm²
Connectors	Mc4 Compatible Connector
Standard Packaging	36 Pieces/Pallet
Module Pieces per Container	720 pieces (40*HQ)

Note:
- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.
- Refer installation Manual instructions & Saatvik warranty statement for terms & conditions.
- The dimensional tolerance for the short/long side of the module is ±2 mm, and diagonal difference ≤ 3 mm.

I-V Characteristics At Different Irradiations

PV MODULE : SGE620-132TGG



STVK/PMG/SGEXXX-132TGG-REV07